

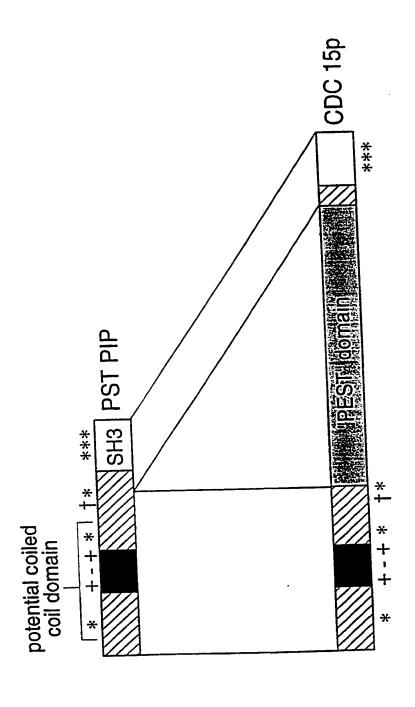
## FILS. 1A

PSTPIP cdc15	1 MMAQLQFRDAFWCRDF - TAHTGYEVLLQRLLDGRKMCKDVEELLRQRAQ 1 MLTKSLQGSEDAGMDALMSRTKSSLSVLESIDEFYAKRAS
PSTPIP cdc15	49 AEERYGKELVQIARKAGGQTEMNSLRTSFDSLKQQTENVGSAHIQLALAL 41 IEREYASKLQELAASSADIPEVGSTLNNILSMRTETGSMAKAHEEVSQQI
PSTPIP cdc15	99 REELRS - LEEFRERQKEQRKKYEAIMDRVQKSKLSLYKKTMESKKAYDQK 91 NTELRNKIREYIDQTEQQKVVAANAIEELYQKKTALEIDLSEKKDAYEYS Predicted coiled coil domain
PSTPIP cdc15	148 CRDADDAEQAFERVSANGHQKQVEKSQNKAKQCKESATEAERVYRQNIEQ 141 CNKLNSYMRQTKKMTGRELDKYNLKIRQAALAVKKMDAEYRETNEL
PSTPIP cdc15	198 LERARTEWEQEHRTTCEAFQLQEFDRLT!LRNALWVHCNQLSMQCVKDDE 187 LLTVTREWIDRWTEVCDAFOHIEEYRLEFLKTNMWAYANIISTACVKDDE
PSTPIP cdc15	248 LYEEVRLTLEGCDVEGDINGFIQSKSTGREPPAPVPYQNYY
cdc15	287 DQLISKAPSYPYSSSRPSASASLASSPTRSAFRPKTSETVSSEVVSSPPT
cdc15	337 SPLHSPVKPVSNEQVEQVTEVELSIPVPSIQEAESQKPVLTGSSMRRPSV
cdc15	387 TSPTFEVAARPLTSMDVRSSHNAETEVQAIPAATDISPEVKEGKNSENAI
cdc15	437 TKDNDDIILSSQLQPTATGSRSSRLSFSRHGHGSQTSLGSIKRKSIMERM
cdc15	487 GRPTSPFMGSSFSNMGSRSTSPTKEGFASNQHATGASVQSDELEDIDPRA
cdc15	537 NVVLNVGPNMLSVGEAPVESTSKEEDKDVPDPIANAMAELSSSMARRQST
cdc15	587 SVDDEAPVSLSKTSSSTRLNGLGYHSRNTSIASDIDGVPKKSTLGAPPAA
cdc15	637 HTSAQMQRMSNSFASQTKQVFGEQRTENSARESLRHSRSNMSRSPSPMLS
cdc15	687 RRSSTLRPSFERSASSLSVRQSDVVSPAPSTRARGQSVSGQQRPSSSMSL
edc15	737 YGEYNKSQPOLSMORSVSPNPLGPNRRSSSVLOSOKSTSSNTSNRNNGGY
PSTPIP cdc15	299 PSIQPSCGVIKRFSGLLHGSPKTTPSAPAASTETLTPTPERNELVYASIE 787 SGSRPSSEMGHRY-GSMSGRSMRQVSQRSTSRARSPEPTNRNSVQSKNVD  * * * * SH3 domain
PSTPIP cdc15	349 V QATQGNLNSSAQDY - RALYDYTAQNSDELD I SAGDILAVILEGEDGWWT 836 PRATFTAEGEPILGYVIALYDYQAQIPEEISFQKGDTLMVLRTQEDGWWD
PSTPIP cdc15	398 VE RNG QR GF VPG S Y L E K L 886 GE I IN V PNS KRGL FPS N F V Q T V

L L E G E D G W W T V E R N G Q R G L L L E D S S G W W K G R L H G Q E G L N S T N K D W W K V E V N D R Q G L E M V D E G W W R G Q C R G H F G I E M V D E G W W R G Q C R G H F G I E M I D D G W W R G V C K G R Y G cortactin.sh3 spectrin.sh3 myosin.sh3 pstpip.sh3 fodrin.sh3 00721112 W

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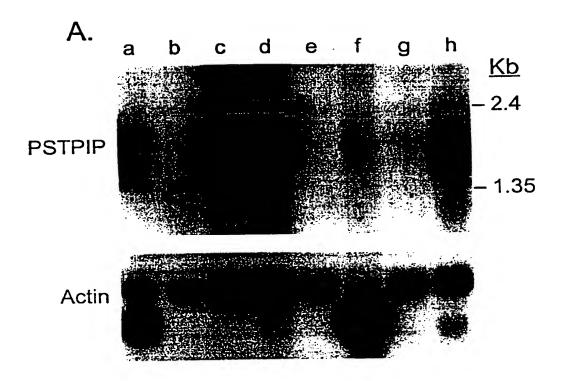
DODBETT DECES

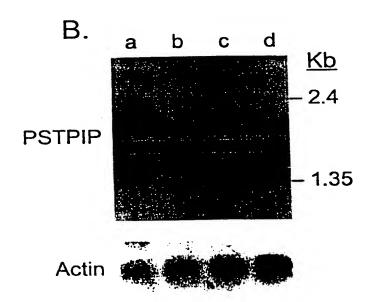


† = Conserved potential SH3 binding site (PXXP) \* = Conserved tyrosine residues



## F16.2





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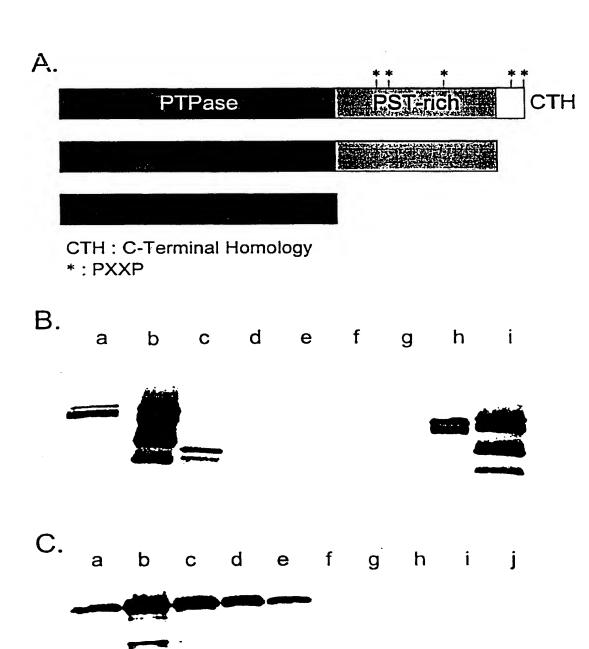
F16.3

a b c d e f g h i

nongazy nanaa

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nonserv.nenege

F16.4 7/

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D.

μg peptide
0 2 5 10 20 40 80

PTP HSCF Peptide

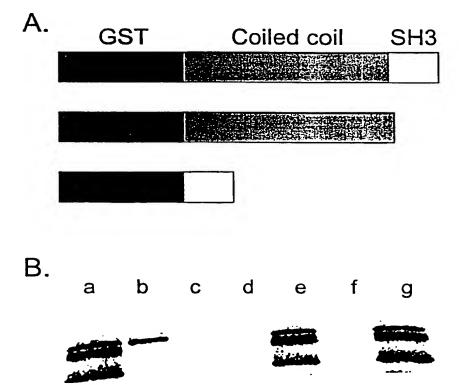
PTP PEST Peptide

PTP PEP Peptide

PTP HSCF Control Peptide



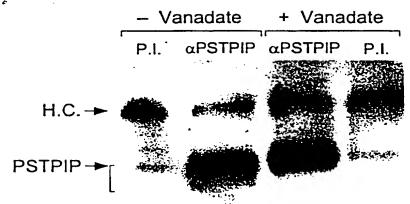
F16.5



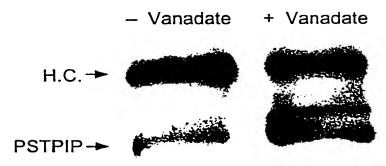


## F16.6

A.



IP :  $\alpha$  PSTPIP Blot :  $\alpha$  PSTPIP



IP :  $\alpha$  PSTPIP Blot :  $\alpha$  PTyr

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10/22 Fls. 6 (cont')

A HSCF



IP :  $\alpha$  FLAG Blot :  $\alpha$  P-Tyr



IP: α FLAG Blot: α FLAG

E

DODESTY OMOSOS

H.C. - - - PTP HSCF -

IP:  $\alpha$  HA Blot:  $\alpha$  HA

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F.

DA HSCF + - + - + - wt HSCF - + - + +

TO LOOF

PTP HSCF →

IP :  $\alpha$  FLAG Blot :  $\alpha$  HA

. . .

PTP HSCF ->

IP :  $\alpha$  HA Blot :  $\alpha$  HA

PSTPIP →

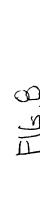
IP :  $\alpha$  FLAG Blot :  $\alpha$  FLAG

PSTPIP -

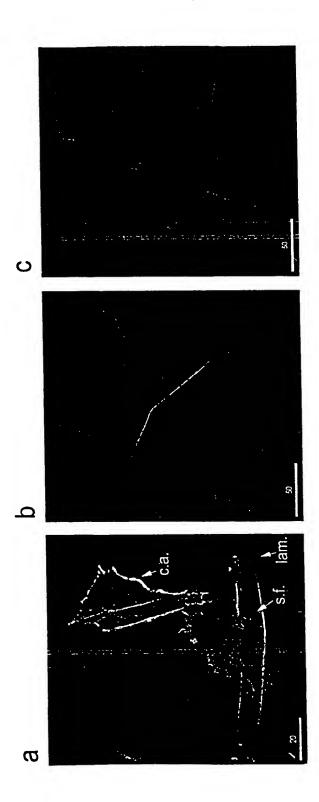
IP:αHA

Blot: α FLAG

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nanssy, asasa





F199.

F.L. Δ25 Δ50 Δ75

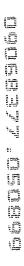


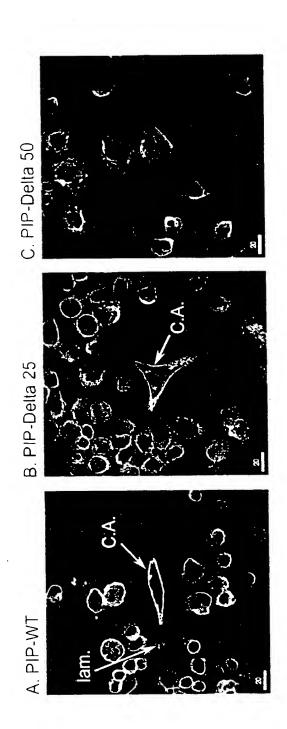
IP:  $\alpha$  FLAG

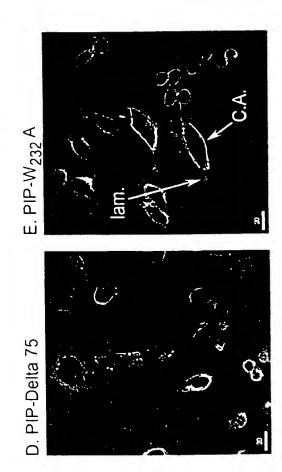


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0) 514

Fig. 1

WT W204 F221 L224 W232

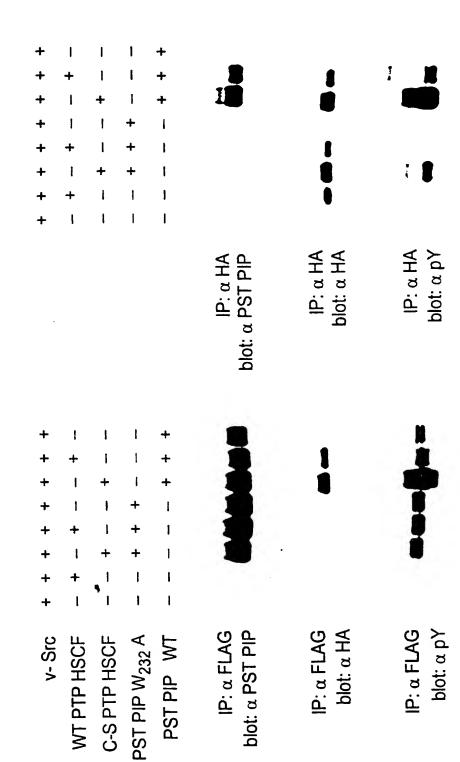
IP: α FLAG

IP: GST-PTP HSCF



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IP: GST PTP HSCF 0

N LRIGRPKGPRDPPAEW GNRFSKPKGPRNPPSAW GNRCGKPKGPRDPPSEW L G F ( 431 782 760 HSCF PEP PEST

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Fig. 144/1

A.

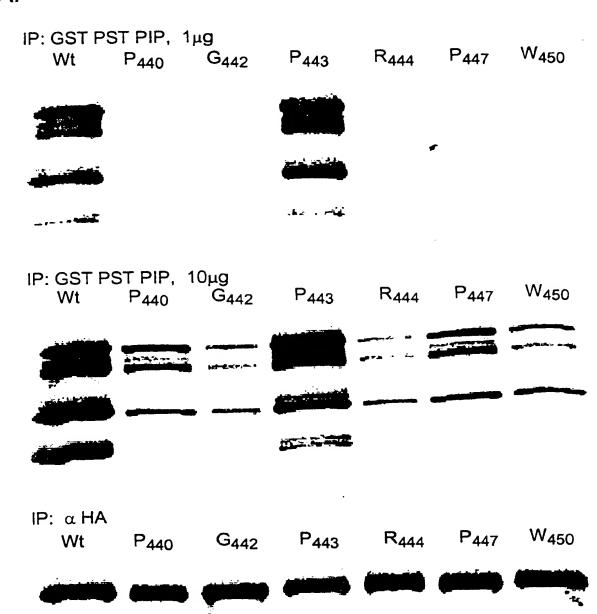
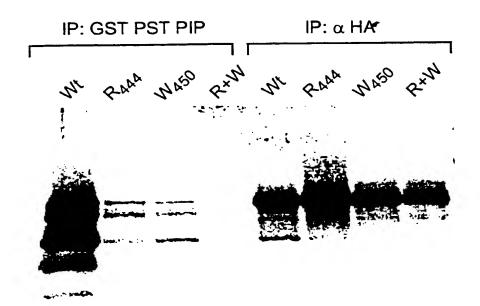


Fig. 14#12



PTP HSCF<sub>444</sub> + 450 PTP HSCF<sub>443</sub> PTP HSCF<sub>444</sub> PTP HSCF<sub>447</sub> PTP HSCF<sub>450</sub> PTP HSCF<sub>D24</sub> PTP HSCF<sub>442</sub> PTP HSCF<sub>440</sub> PTP HSCF<sub>WT</sub> PST PIP

blot:  $\alpha$  PST PIP

IP: α FLAG

IP:  $\alpha$  Hablot: PST PIP

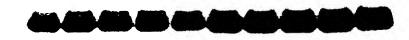
IP:  $\alpha$  HA blot:  $\alpha$  HA

m

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F:1.15

WT PST PIP W<sub>232</sub>A PST PIP



IP: α FLAG

blot: α PST PIP



IP: α FLAG

blot: α pY

v - Src